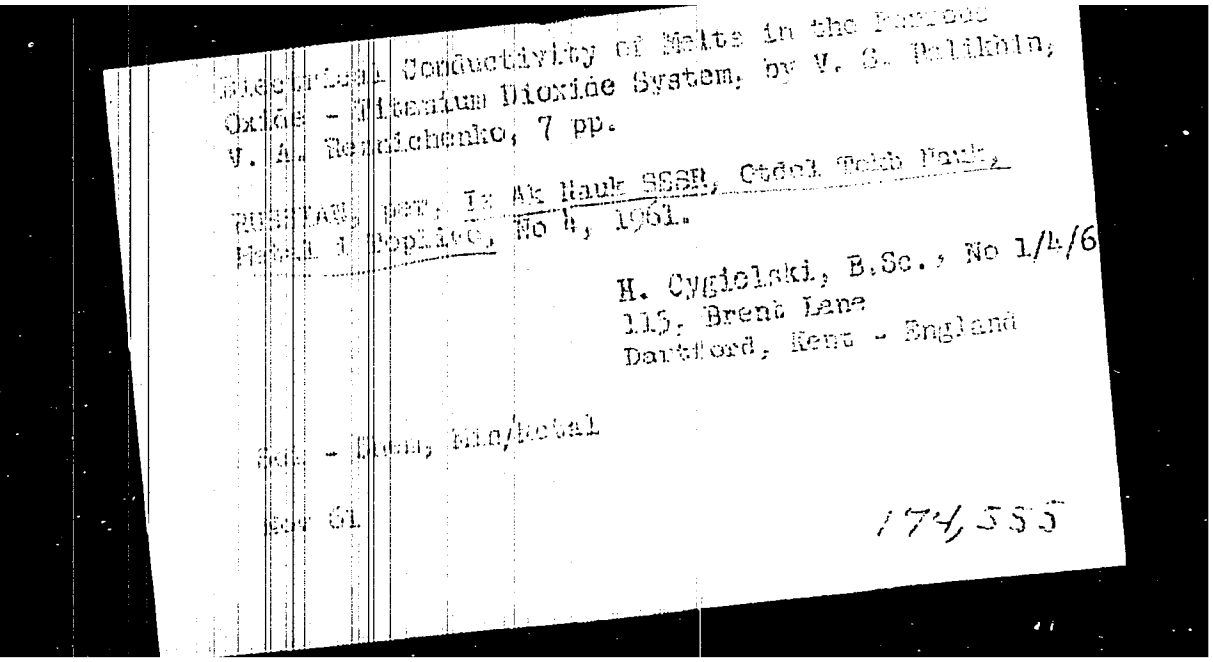
APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0



[illegible] Conductivity of Melts in the Ternary Oxide - Titanium Dioxide System, by V. G. Pelikhin, V. A. Bendichenko, 7 pp.

Russian, per: Iz Ak Nauk SSSR, Otdel Tekh Nauk, Metall i Toplivo, No 4, 1961.

H. Cygielski, B.Sc., No 1/4/6
115, Brent Lane
Dartford, Kent - England

Sub - Diam, Min/Metal

Sep 61

174,555

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

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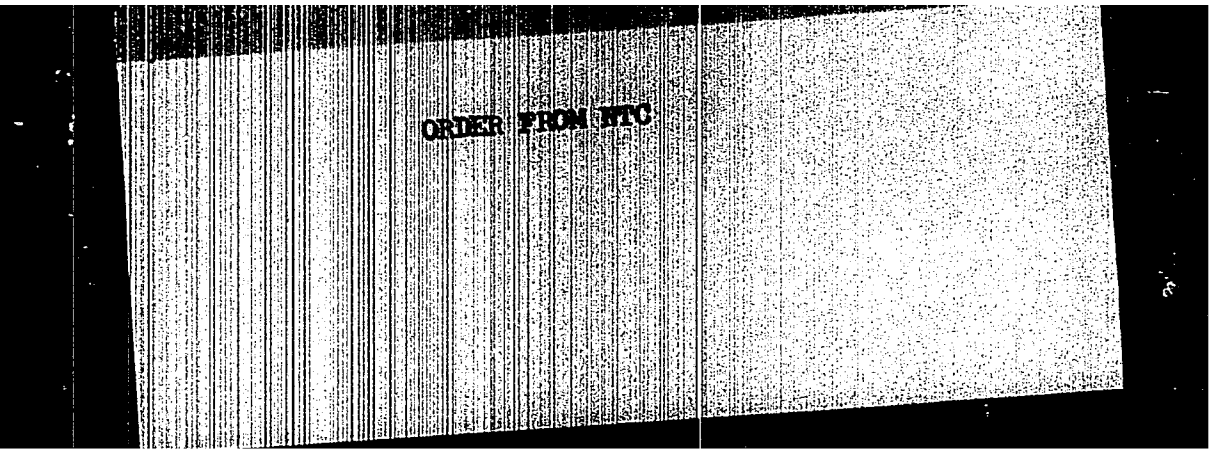

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Glazov, V. M.
CONSTRUCTION OF THE SOLIDUS LINE BY THE METHOD OF MEASURING MICROHARDNESS. [1962]
[7]p. 11 refs.
Order from OTS or SLA $1.10 62-10640

Trans. of A[kademiya] N[auk] SSSR. O[tdelenie] T[ekhnicheskikh] N[auk]. Izv[estiya]: Met[allurgiya] i Topl[ivo] 1961, no. 4, p. 39-42.

DESCRIPTORS: *Aluminum alloys, *Copper alloys, *Bismuth alloys, Microstructure, Hardness, Grains (Metallurgy), Liquids, Solids, Diffusion, Phase studies, Crystal, Crystallization.

The possibility of using the method of measuring the microhardness to determine the solid line by investigating the composition in the center of grains of alloys not crystallized in equilibrium is analyzed. The method proposed is justified experimentally by the example of
(Physics--Solid State, TT, v. 8, no. 6) (over)

62-10640

I. Glazov, V. M.

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Office of Technical Services

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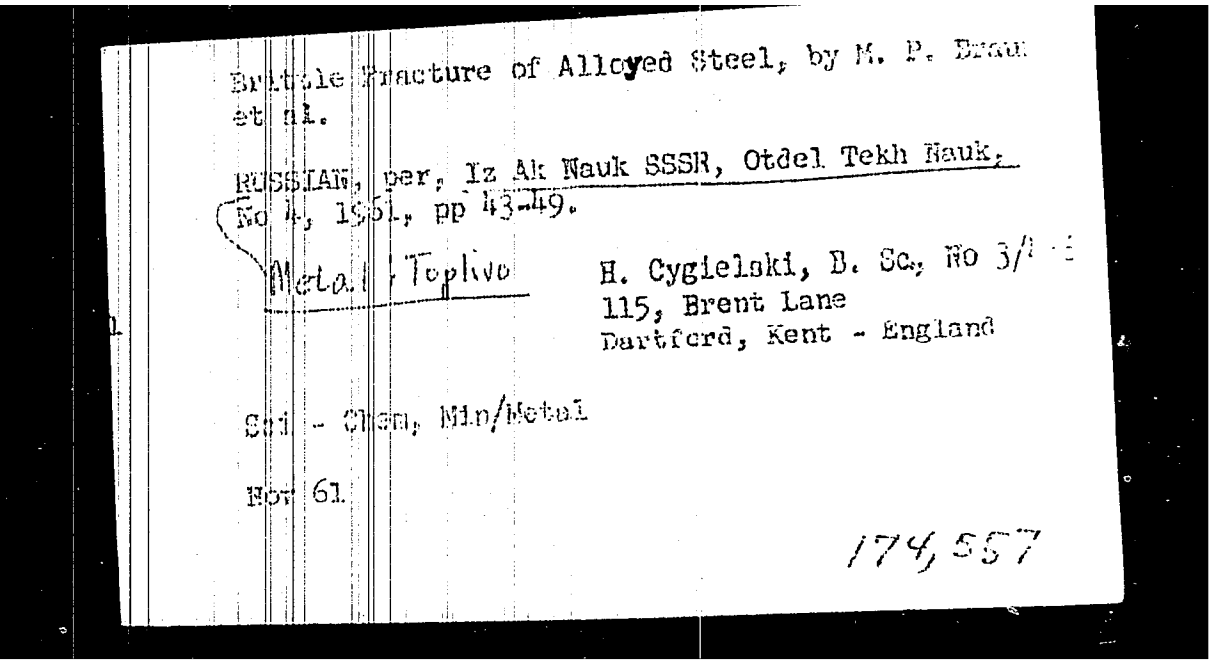

Brittle Fracture of Alloyed Steel, by M. P. Braun et al.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 4, 1961, pp 43-49.

Metal i Toplivo

H. Cygielski, B. Sc., No 3/[illegible]
115, Brent Lane
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Sci - Chem, Min/Metal

Nov 61

174,557

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

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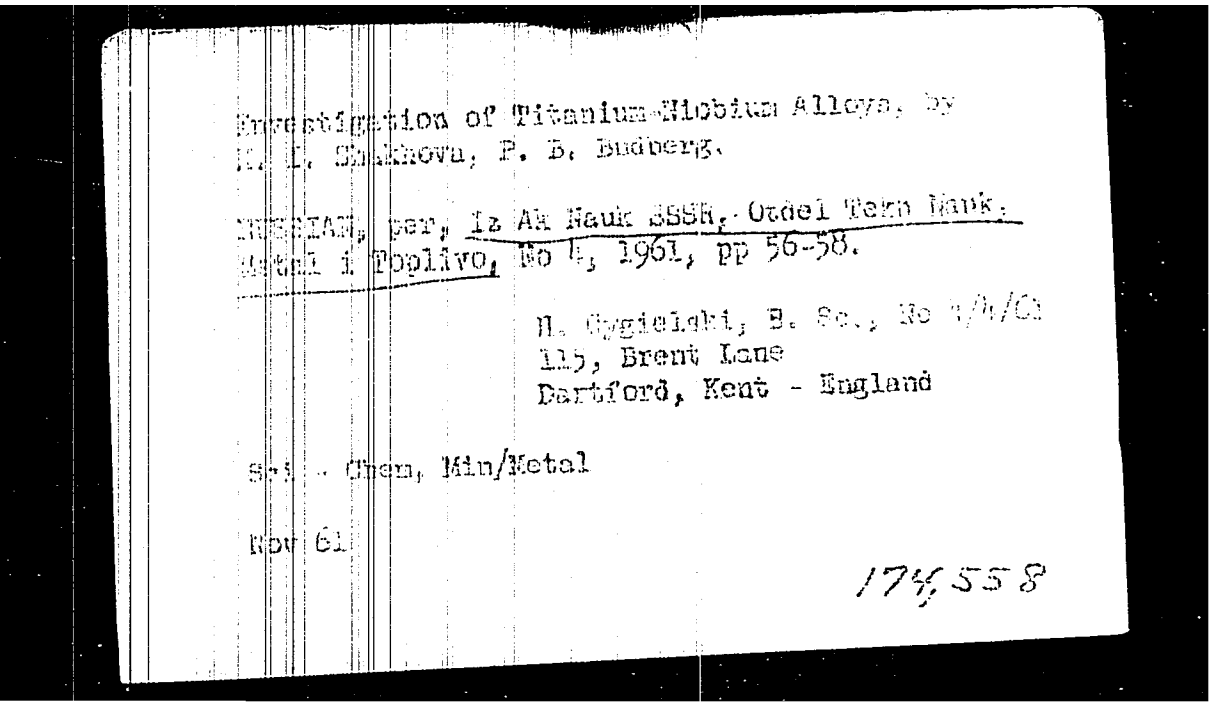

Investigation of Titanium-Niobium Alloys, by
I. I. Sokhova, P. B. Budberg.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekn Nauk,
Metall i Toplivo, No 1, 1961, pp 56-58.

N. Cygielski, B. Sc., No 4/A/C1
115, Brent Lane
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Sci - Chem, Min/Metal

Nov 61

174558

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

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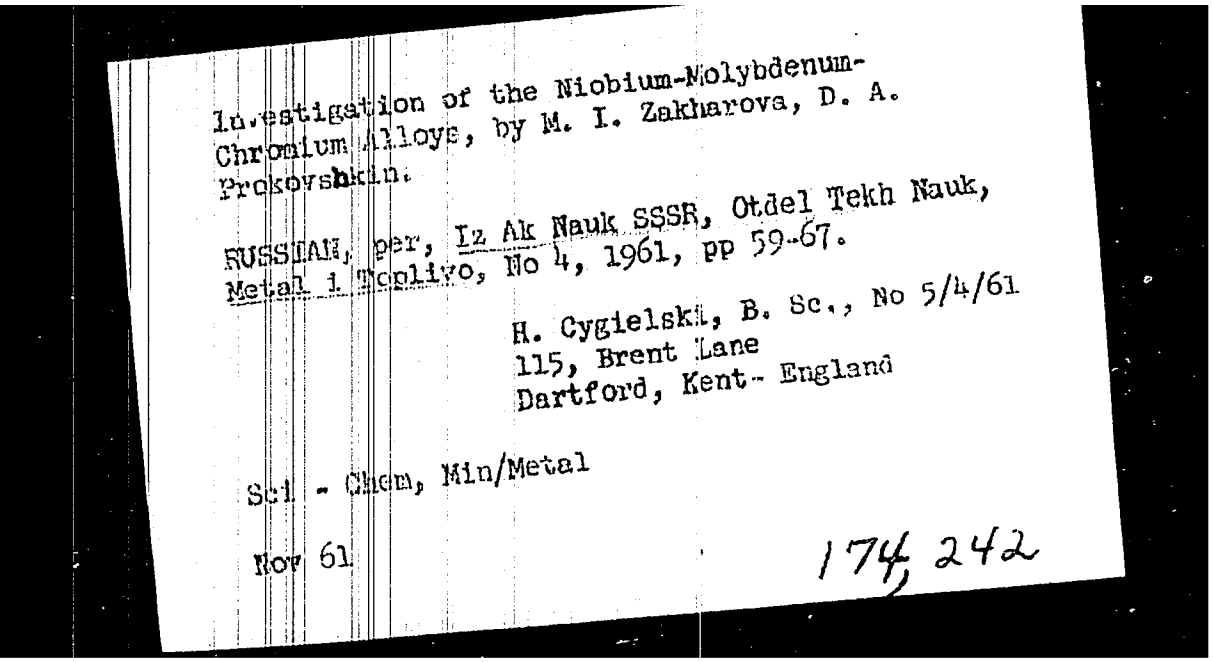

Investigation of the Niobium-Molybdenum-Chromium Alloys, by M. I. Zakharova, D. A. Prokovshkin.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Metal i Toplivo, No 4, 1961, pp 59-67.

H. Cygielski, B. Sc., No 5/4/61
115, Brent Lane
Dartford, Kent- England

Sci - Chem, Min/Metal

Nov 61

174,242

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

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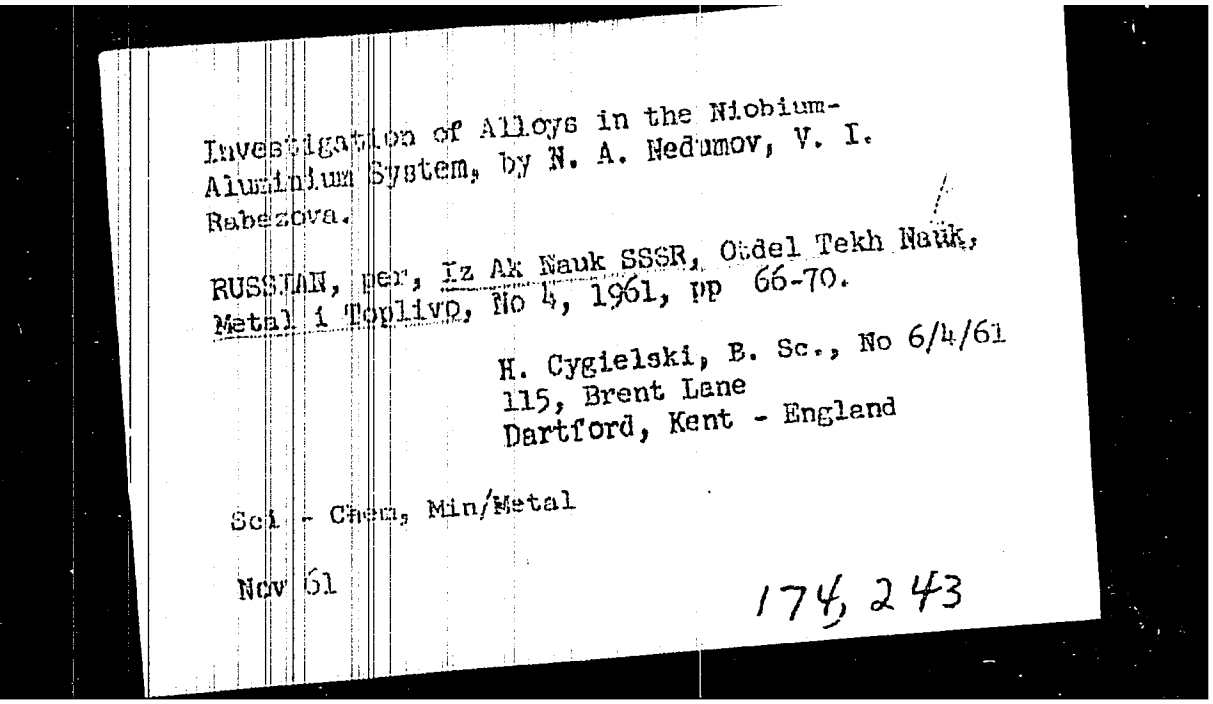

Investigation of Alloys in the Niobium-Aluminium System, by N. A. Nedumov, V. I. Rabezova.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Metal i Toplivo, No 4, 1961, pp 66-70.

H. Cygielski, B. Sc., No 6/4/61
115, Brent Lane
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Sci - Chem, Min/Metal

Nov 61

174,243

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Hardness and Electrical Resistivity of Titanium-Chromium-Molybdenum Alloys, by N. V. Grum-Grzhimaylo, V. G. Gromova.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Metal i Toplivo, No 4, 1961, pp 71-75.

H. Cygielski, B. Sc., No 7/4/61
115, Brent Lane
Dartford, Kent - England

Sci - Chem, Min/Metal

Nov 61

174, 244

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Investigation of the Properties of Alloys in the Titanium-Vanadium-Molybdenum System, by I. I. Kornilov, R. S. Polyakova.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Metal i Toplivo, No 4, 1961, pp 76-82.

M. Cygielski, B. Sc., No 8/4/61
115, Brent Lane
Dartford, Kent - England

Sci - Chem, Min/Metal

Nov 61

173,600

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Effect of Tantalum Carbide on the Composition and Properties of Cobalt Phase in Titanium Carbide-Tungsten Carbide-Cobalt Alloys, by R. V. Rybal'chenko, V. I. Tret'yakov, I. N. Chaporova.

RUSSIAN, per; Iz Ak Nauk SSSR, Otdel Tekh Nauk, Metal i Toplivo, No 4, 1961, pp 83-89.

H. Cygielski, B. Sc., No 9/4/61
115, Brent Lane
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Sci - Chem, Min/Metals

Nov 61

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Investigation of Some Hard Alloys in the Boron-Silicon-Carbon System, by G. A. Meyerson, et al.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Metal i Toplivo, No 4, 1961, pp 90-94.

H. Cygielski, B. Sc., No 10/4/61
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Dartford, Kent - England

HB 0354

Sci - Chem, Min/Metals

Nov 61

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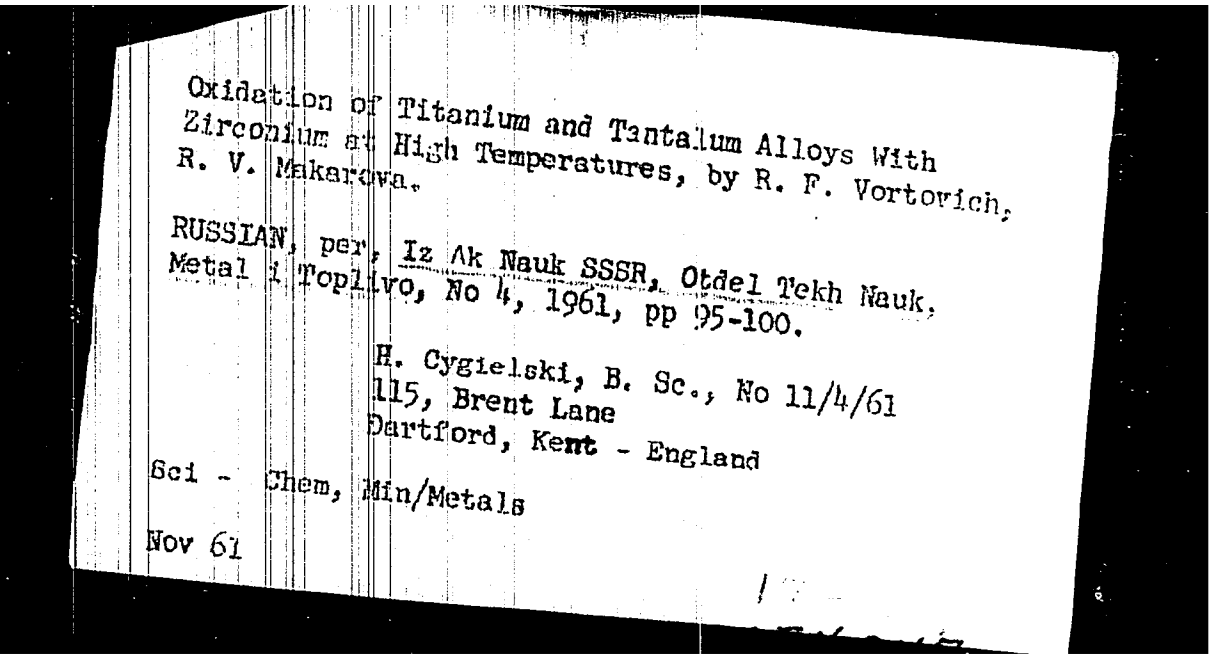

Oxidation of Titanium and Tantalum Alloys With Zirconium at High Temperatures, by R. F. Vortovich, R. V. Makarova.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Metal i Toplivo, No 4, 1961, pp 95-100.

H. Cygielski, B. Sc., No 11/4/61
115, Brent Lane
Dartford, Kent - England

Sci - Chem, Min/Metals

Nov 61

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Plasticity of Ordered Magnesium-Cadmium Alloys,
by K. K. Kasymbekova, A. A. Presnyakov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Metal i Toplivo, No 4, 1961, pp 101-102.

H. Cygielski, B. Sc., No 12/4/61
115, Brent Lane
Dartford, Kent - England

Sci - Chem, Min/Metals

Nov 61

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

High Temperature Recrystallization and Strength Reduction of Magnesium-Manganese-Aluminium-Calcium Alloys.

RUSSIAN, per. Iz Ak Nauk SSSR, Otdel Tekh Nauk, Metal i Toplivo, No 4, 1961, pp 103-110.

H. Cygielski, B. Sc., No 13/4/61
115, Brent Lane
Dartford, Kent - England

Sci - Chem, Min/Metals

Nov 61

174, 193

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

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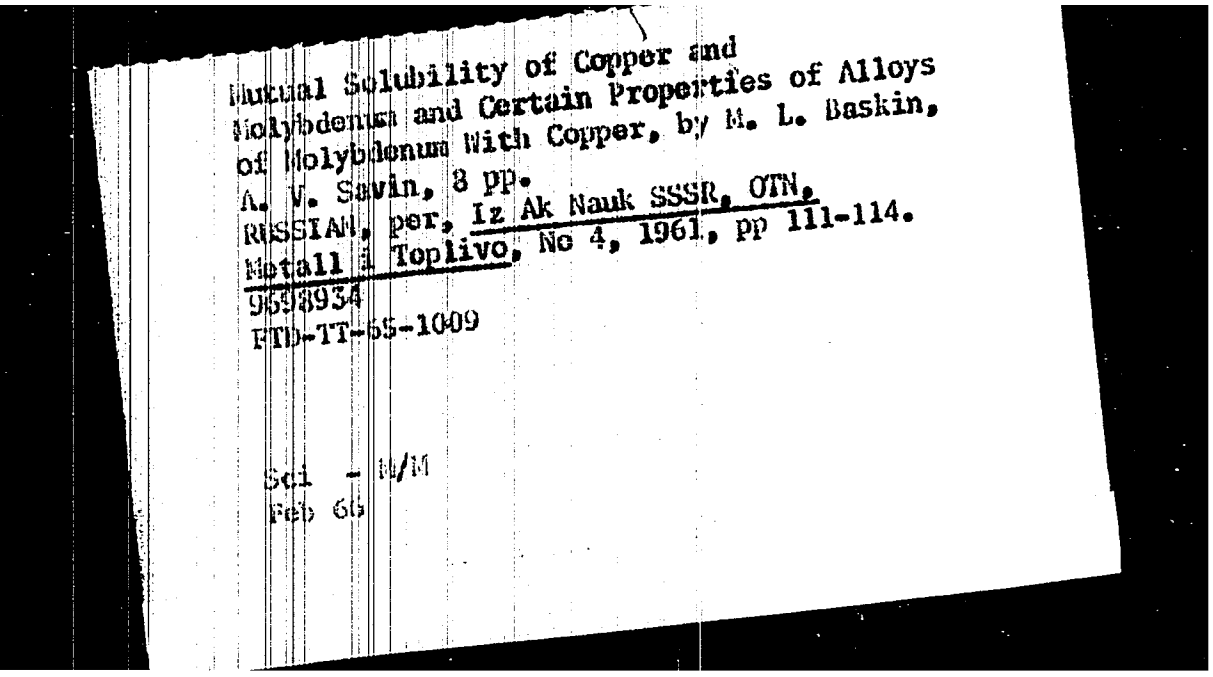

Mutual Solubility of Copper and Molybdenum and Certain Properties of Alloys of Molybdenum With Copper, by M. L. Baskin, A. V. Savin, 8 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, OTN, Metall i Toplivo, No 4, 1961, pp 111-114.
9598934
FTD-TT-65-1009

Sci - M/M
Feb 66

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Plaksin, I. N. and Smirnov, V. N.
ZUR FRAGE DER QUANTITATIVEN KONTROLLE DER AUFBEREITUNGSPRODUKTE MIT HILFE VON ALPHASTRAHLEN (On the Quantitative Control of the Preparation Products by Means of Alpha Rays).
Order from: TIB $1.80

Trans. in German of Akademiya Nauk SSSR. Otdeleniye Tekhnicheskikh Nauk. Izvestiya: Metallurgiya i Toplivo, 1961, no. 4, p. 118-122.

DESCRIPTORS: *Control, Mining engineering, *Alpha spectra

(Engineering, TT, v. 9, no. 11)

62-27335

I. Plaksin, I. N.
II. Smirnov, V. N.
III. Technische Informationsbibliothek, Hannover (West Germany)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

On the Burning Mechanism of an Atomized Liquid Fuel in a Turbulent Stream, by S. M. Kogarko, V. Ya. Rasevich, 13 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, OTN, Metal i Topliva, No 4, 1961, pp 137-142. 9676296

FTD-TT-62-190

Sci - Fuels

Apr 62

192, 295

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

62-27248

Feodotov, M. F.
DIE ROLLE DER EXTRAKTIONSSTOFFE BEI DER OXYDATION DER STEINKOHLEN (The Role of Extraction Matters During Oxidation of Bituminous Coal). 7p. Order from TIB $1.45

Trans. in German of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya: Metallurgiya i Toplivo, 1961, no. 4, pp. 175-178.

DESCRIPTORS: *Oxidation, *Coal, Solvent extraction

I. Feodotov, M. F.
II. Technische Informationsbibliothek, Hannover

(Materials--Fuels, TT, v. 9, no. 11)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Lepinskikh, B. M., Esin, O. A., and Manakov, A. I.
ELECTROLYTIC PRECIPITATION OF CHROMIUM AND VANADIUM FROM MOLTEN SLAGS. [1962] 6p. 3 refs.
Order from OTS or SLA $1.10 63-10144

Trans. of A[kademiya] N[auk] SSSR. O[tdelenie] T[ekhnicheskikh] N[auk]. Izv[estiya]. Met[allurgiya] i Toplivo, 1961, no. 5, p. 19-21.

DESCRIPTORS: *Electrolysis, *Chemical precipitation, *Chromium, *Vanadium, *Slags, Impurities, Material separation, Reduction (Chemistry).

A study was made of the conditions of separate deposition of chromium and vanadium by electrolysis. It was found that at current densities lower than 1.1 amp/cm^2 vanadium is preferentially deposited on the cathode, while if the current density is greater than 1.1 amp/cm^2 (Metallurgy, TT, v. 9, no. 10) (over)

63-10144

I. Lepinskikh, B. M.
II. Esin, O. A.
III. Manakov, A. I.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Recrystallization of High-Melting Metals
in Welding and Soldering, by
N. V. Grebtsev, G. N. Klebanov, 16 pp.
RUSSIAN, per. Iz Ak Nauk SSSR, OTN,
Metall i Toplivo, No 5, 1961, pp 62-69.
96989-65
FTD-TT-65-1010

Sci - M/M
Feb 66

296,387

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Raising the Creep Strength of Metallic Alloys by the Method of Combined Mechanical and Thermal Treatment, by I. A. Oding, Z. G. Fridman.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Metal i Toplivo, No 5, 1961, pp 75-77.

NLL M. 3640

Sci - Min/Metals
Aug 68

201,168

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Savitskii, E. M. and Dashkovskii, A. I.
INVESTIGATION OF INTERNAL FRICTION AS A METHOD OF PHYSICO-CHEMICAL ANALYSIS OF METAL ALLOYS. [1963] [14]p. 12 refs.
Order from OTS or SLA $1.60 63-10907

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya: Metallurgiya i Toplivo, 1961, no. 5, p. 95-100.

DESCRIPTORS: Metals, *Alloys, *Internal friction, Crystal structure, Transformations, Temperature, Reaction kinetics, Analysis.

This paper gives the results of the measurement of internal friction in several single component and binary metal systems and an attempt is made to establish the nature of the variation of the level of internal friction with the variation of such equilibrium factors as the temperature and composition.

63-10907

I. Savitskii, E. M.
II. Dashkovskii, A. I.

(Physics--Solid State, TT, v. 10, no. 2)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Effect of Alloying Upon the Structure and Properties of Tungsten-Carbide Cobalt Compositions, by V. F. Funke, V. I. Tumanov, et al.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Met i Toplivo, No 5, 1961, pp 101-108.

HB 6036

Sci-M/M

Nov 63

243,452

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Action of Ultrasonic Vibrations on the Shape and Dimensions of Intermetallic Compound Crystals in Aluminum Alloys, by G. I. Eskin, I. N. Fridlyander.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Met i Toplov, No 4, 5, 1961, pp 109-112.

HB 5460

Sci - Min/Met
Apr 62

190, 7/7

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Revyakin, A. V.
DIFFUSION OF OXYGEN IN d-TITANIUM. [1964]
9p 8refs
Order from CTS, SLA, or ETC $1.10 TT-64-14843

Trans. of Akademiya Nauk SSSR. O[tdelenie] T[ekhnicheskikh] N[auk]. Izvestiya: Metallurgiya i Toplivo, 1961, no. 5, p. 113-116.

(Metallurgy--Light Metals, TT, v. 11, no. 11)

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TT-64-14843

1. Revyakin, A. V.

CIA/FDD XY-1619

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Nekrasov, Z. L. and Chekin, V. V.
ACTION OF ALTERNATING MAGNETIC FIELD ON A "BOILING" LAYER OF FERROMAGNETIC PARTICLES. [1963] 6p
Order from OTS or SLA $1.10 63-20249

Trans. of Akademiya Nauk SSSR. Otdeleniye Tekhnicheskikh Nauk. Izvestiya. Metallurgiya i Toplivo, 1961, no. 6, p. 25-29.

DESCRIPTORS: *Magnetic fields, *Ferromagnetic materials, Boiling, Pipes, Nitrogen, Bubbles, Ores (Metal sources), Electromagnets, Tests.

Action efficiency of the magnetic field on the boiling layer structure of ferromagnetic particles was investigated in the case of concentrate from the Kerche ore, enriched by roasting and magnetism, and of which the iron containing part is mainly magnetite. The experi-
(Physics--Magnetism, TT, v. 10, no. 12) (over)

63-20249

I. Nekrasov, Z. L.
II. Chekin, V. V.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

ISOTHERMAL SINTERING OF METALLIC POWDERS UNDER PRESSURE, BY M. YU. BAL'SHIN, A. A. TROFIMOVA, 15 PP.

RUSSIAN, PER, IZVESTIYA AKADEMII NAUK SSSR, OTDELENIYE TEKHNICHESKIKH NAUK, METALLURGIYA I TOPLIVO, NO 6, 1961, PP 45-51.

JPRS 18245

SCI - M/M
APR 63

NLM 3638

225,637

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

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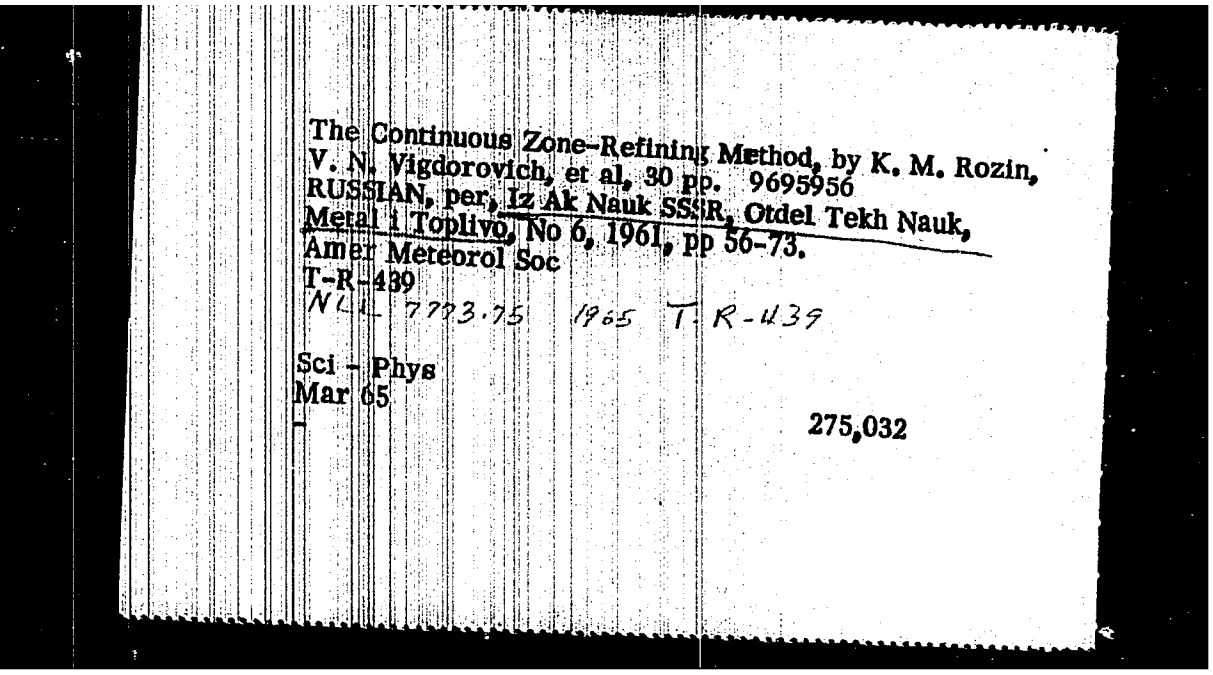

The Continuous Zone-Refining Method, by K. M. Rozin, V. N. Vigdorovich, et al, 30 pp. 9695956
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Metal i Toplivo, No 6, 1961, pp 56-73.
Amer Meteorol Soc
T-R-439
NL - 7723.75 1965 T. R-439

Sci - Phys
Mar 65

275,032

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

The Diffusion of Niobium and Carbon in Niobium and its Carbides by P. V. Gel'd and V. D. Liubimov, 21 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekhn Nauk, met i Toplivo, No 6, 1961, pp 119-126.

AEC-tr-5954

Scl - Chem
Oct 63

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

THE HIGH-TEMPERATURE STRENGTH OF INTERMETALLIC COMPOUNDS, BY I. I. KORNILOV.

RUSSIAN, PER, IZ AK NAUK SSSR, OTDEL TEKH NAUK, METAL I TOPLIV, NO 6, 1961, PP 130-136.

NLL M. 3772

SCI - MIN/METALS

213,002

OCT 62

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Physical Properties of Tungsten Carbide-Cobalt Hard Metals, by V. I. Tumanov, et al.
RUSSIAN, per, Izvak Ak Nauk SSSR, Otdel Tekh Nauk Metal i Toplivo, No 6, 1961, pp 144-148.

HB 6186

Scl - M/M

Mar 64

250,774

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Basic Forms of Deformational Microrelief Appearing at Elevated Temperatures in Polycrystalline Metals With Face-Centered Cubic Lattice Structure, by M. G. Lozinskiy.
RUSSIAN, per. Izv. Akad. Nauk SSSR, Otd. Tekh. Nauk, Met. Toplivo, No 1, 1962, pp 105-126.
*AEC 2436

Sci/Materials
Oct 66

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Mozorov, A. N. and Novokharskii, I. A.
THERMODYNAMICS OF FERROCHROMITE REDUCTION WITH HYDROGEN. [Aug 63] 10 refs.
Order from SIC $8.00

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya: Metallurgiya i Toplivo, 1962, no. 6, p. 3-6.
Also available from SIC in Russian Metallurgy and Fuels Fuels, 1962, no. 6, $68.00/year.

DESCRIPTORS: *Iron alloys, *Chromite, *Chromium compounds, Oxides, Ores (Metal sources), Thermodynamics, Hydrogen, Reduction (Chemistry).

The thermodynamics of the reaction between $FeCr_2O_4$ and H_2 to give Fe and Cr_2O_3 was studied both by reduction with H_2, and by oxidation of the reduced ore with steam. The equilibrium constant, free energy change,
(Metallurgy, TT, v. 10, no. 11) (over)

63-22427

I. Mozorov, A. N.
II. Novokharskii, I. A.
III. Scientific Information Consultants Ltd. (Gt. Brit.)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

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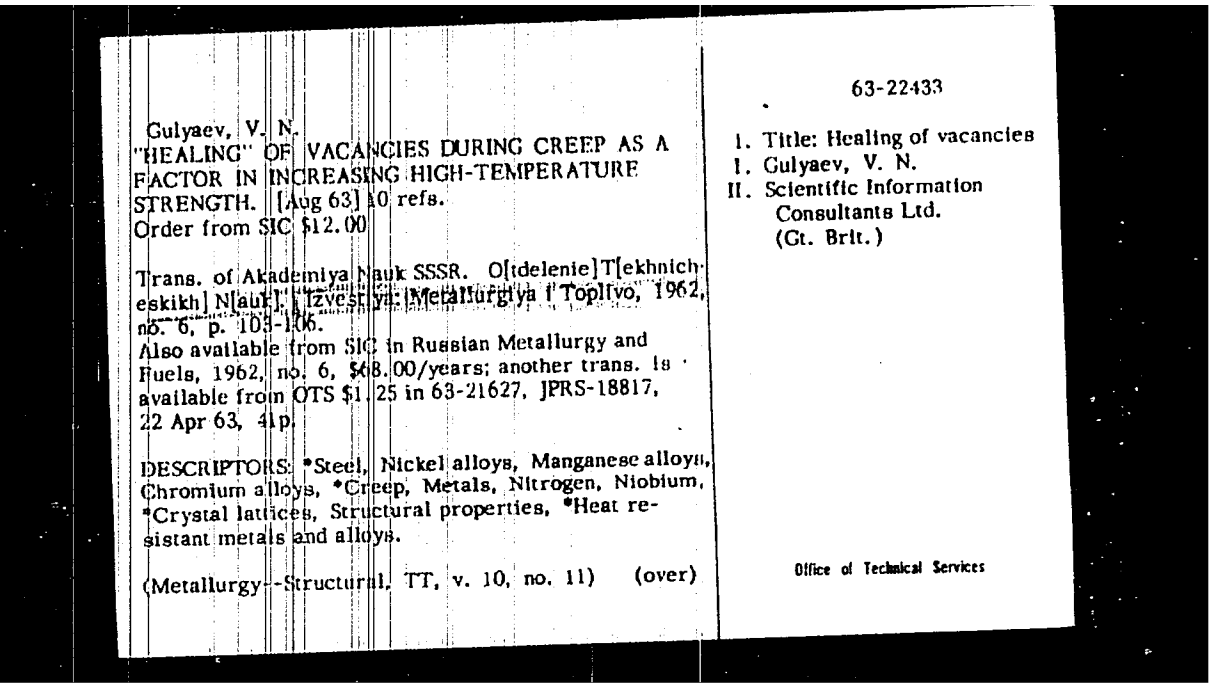


Gulyaev, V. N.
"HEALING" OF VACANCIES DURING CREEP AS A FACTOR IN INCREASING HIGH-TEMPERATURE STRENGTH. [Aug 63] 10 refs.
Order from SIC $12.00

Trans. of Akademiya Nauk SSSR. O[tdelenie]T[ekhnicheskikh] N[auk]. Izvestiya: Metallurgiya i Toplivo, 1962, no. 6, p. 103-106.
Also available from SIC in Russian Metallurgy and Fuels, 1962, no. 6, $48.00/years; another trans. is available from OTS $1.25 in 63-21627, JPRS-18817, 22 Apr 63, 41p.

DESCRIPTORS: *Steel, Nickel alloys, Manganese alloys, Chromium alloys, *Creep, Metals, Nitrogen, Niobium, *Crystal lattices, Structural properties, *Heat resistant metals and alloys.

(Metallurgy--Structural, TT, v. 10, no. 11) (over)

63-22433

1. Title: Healing of vacancies
1. Gulyaev, V. N.
II. Scientific Information Consultants Ltd. (Gt. Brit.)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Oding, I. A. and Liberov, Yu. P.
SUSCEPTIBILITY OF FAILURE OF NICKEL UNDE.. STATIC TENSILE LOADING. [Aug 63] 10 refs. Order from SIC $12.00

Trans. of Akademiya Nauk SSSR. O[tdelenie] T[ekhnicheskikh] N[auk]. Izvestiya: Metallurgiya i Toplivo, 1962, no. 6, p. 125-130.
Also available from SIC in Russian Metallurgy and Fuels, 1962, no. 6, $68.00/year.

DESCRIPTORS: *Nickel, Density, Tensile properties, Stresses, Optical analysis, Electron microscopes, Fracture (Mechanics), *Failure (Mechanics), *Loading (Mechanics), Test methods, Crazing

The behaviour of nickel in tensile testing was studied by (1) observing changes in density during test, (2) analysis of the stress-strain curves, particularly true stress (Metallurgy--Nonferrous Metals, TT, v. 10, no. 11)
(over)

63-22435

I. Oding, I. A.
II. Liberov, Yu. P.
III. Scientific Information Consultants Ltd. (Gt. Brit.)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Shakhova, K. I. and Budberg, P. B.
PHASE EQUILIBRIUM DIAGRAM OF TITANIUM-NIOBIUM-CHROMIUM ALLOYS. [Aug 63] 4refs
Order from SIC $12.00

Trans. of Akademiya Nauk SSSR. O[tdelenie] T[ekhnicheskikh] N[auk]. Izvestiya: Metallurgiya i Toplivo, 1962, no. 6, p. 137-141.
Also available from SIC in Russian Metallurgy and Fuels, 1962, no. 6, $68.00/year

DESCRIPTORS: *Heat resistant metals and alloys, *Chromium alloys, *Niobium alloys, *Titanium alloys, Phase studies, Thermodynamics, Quenching (Cooling), High temperature research

An examination has been made of the region of the ternary Ti-Nb-Cr system which was thought most promising for the development of high-temperature alloys. (Metallurgy, TT, v. 10, no. 11)

63-22437

I. Shakhova, K. I.
II. Budberg, P. B.
III. Scientific Information Consultants Ltd. (Gt. Brit.)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Kornilov, I. I. and Nartova, T. T.
CREEP STRENGTH AT 700°C OF ALLOYS ON THE BASE OF Ti(Al COMPOUND. [Aug 63] 19 refs. Order from SIC $12.00

Trans. of Akademiya Nauk SSS... O[tdelenie] T[ekhni-cheskikh] N[auk]. Izvestiya. Metallurgiya i Toplivo, 1962, no. 6, p. 142-146.
Also available from SIC in ..ussian Metallurgy and Fuels, 1962, no. 6, $68.00/year.

DESCRIPTORS: *Titanium alloys, *Aluminum alloys, *Heat resistant metals and alloys, *Creep, Mechanical properties

Titanium alloys of composition approximating to Ti6Al are shown to have outstanding creep strength at temperatures up to 700°C, being superior to austenitic steels. The results can be explained theoretically. (SIC abstract)

63-22438

I. Kornilov, I. I.
II. Nartova, T. T.
III. Scientific Information Consultants Ltd (Gt. Brit.)

(Metallurgy, TT, v. 10, no. 11)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Electro-motive Forces in a Liquid Metal-slag System , by O. A. Esin and L. K. Gavrilov.
RUSSIAN, Izvestiya Akad Nauk SSSR, OTN Tekhnicheskikh Nauk, 1950, No 7, pp 1040-1048.
NLL RTS 2679 (On Loan or Purchase)

Aug65 288,872

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Bergman, A. G.
THE CHEMISTRY OF MULTICOMPONENT SYSTEMS [Khimiya Mnogokomponentnykh Sistem]. [1963] 14p (figs omitted).
Order from OTS, SLA, or ETC $1.60 TT-64-14139

Trans. of Akademiya Nauk SSSR. Sektor Fiziko-khimicheskogo Analiza. Izvestiya, 1949, v. 19, p. 113-119. Other translations are available from SLA as RT-2196, 15p and R-02790, 8p.

(Chemistry--Physical, TT, v. 11, no. 11)

TT-64-14139

I. Bergman, A. G.
II. RT-2196
III. SLA-R-02790

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Study of the Phosphoric Acid-Water System by the Method of Physicochemical Analysis, by M. A. Klochko, M. Sh. Kurbanov, 14 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Sektor Fiz Anal, Vol XXIV, M 1954, pp 252-263.

OTS 60-17717

Sci
Mar 62
Vol 4, No 4

181, 157

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Electrical Conductivity and Viscosity of the Ammonium Nitrate-Water System, by M. A. Klochko, G. F. Gubskaya, 12 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Sektor Fiz Khim Analiza, Vol XXVII, 1956, pp 402-411.

SLA 60-17702

129,400

Sci

OTS, Vol IV, No 3

Sep 60

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Spectral Determination of Iridium, Platinum and Palladium in Refined Rhodium, by A. V. Babayeva, E. S. Lapir, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Sektor Platiny i Drug Blag Metal., No 22, 1948, pp 145-148.

National Research Council TT-825

Sci

Jun 60

118,356

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Dubovskii, N. V.
THE INTERACTION OF GENES, AFFECTING THE WING IN DROSOPHILA MELANOGASTER
(Vzaimodeistvie Genov, Deistvuyushchikh na Krylo u Drosophila Melanogaster). 1962, 6p. 3 refs.
PL-480 HEW.
Order from OTS $0.50 61-31007

Trans. of Akademiya Nauk SSSR. Izvestiya. [Seriya Biologicheskaya] 1935, v. 2, [no. 7] p. 1163-1168.

DESCRIPTORS: *Genetics, *Chromosomes, Drosophila, Wings, Embryology.

The form of the wing plate of Drosphilia was studied to determine the interactions of genes taking part in the formation of a given body structure. It was found that the formation of such structures is very complex, consisting of (1) the complementary reaction of many genes, (2) frequent "simple superposition", and (3)
(Biological Sciences--Zoology, TT, v. 7, no. 10)
(over)

61-31007

I. Dubovskii, N. V.
II. PL-480 HEW (61-31007)
III. National Science Foundation, Washington, D. C.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Preparation of Cyclobutanone, by N. Ya. Dan'yanov, S. M. Rol'nov

RUSSIAN, per, Is Ak Nauk SSSR, Sur Biol, No 3, 1937, pp 529-38. CIA 9033136

NIHD

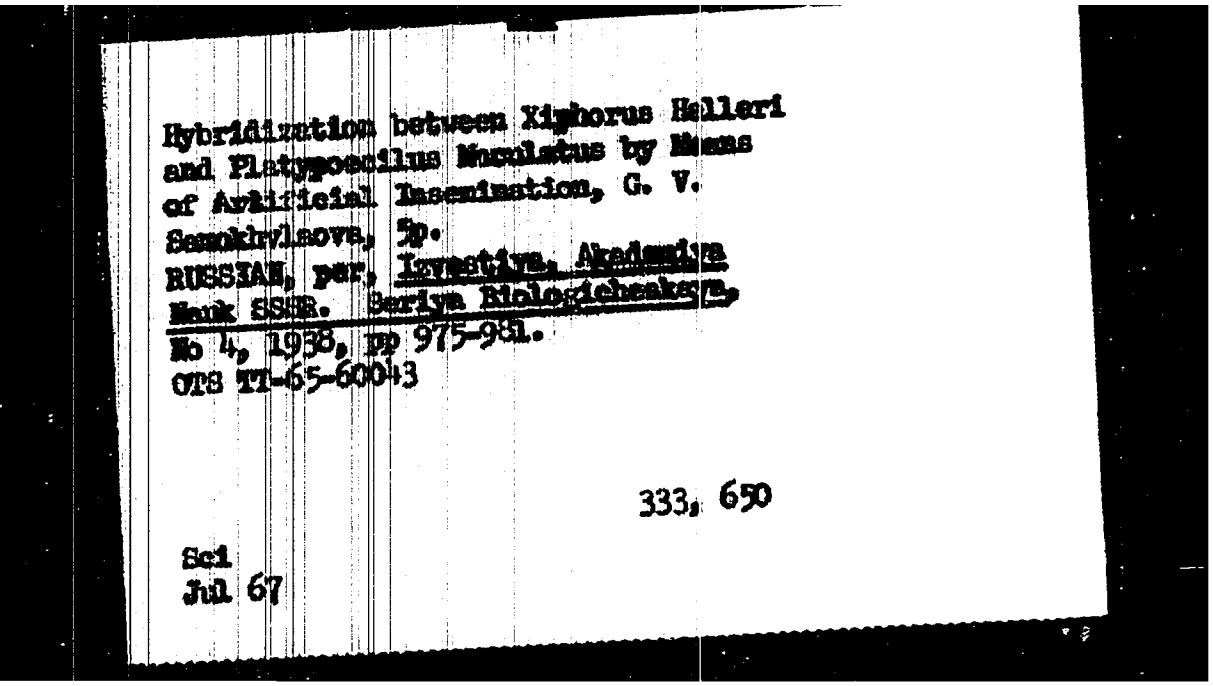
Sci - Med

Oct 58

74, 462

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0



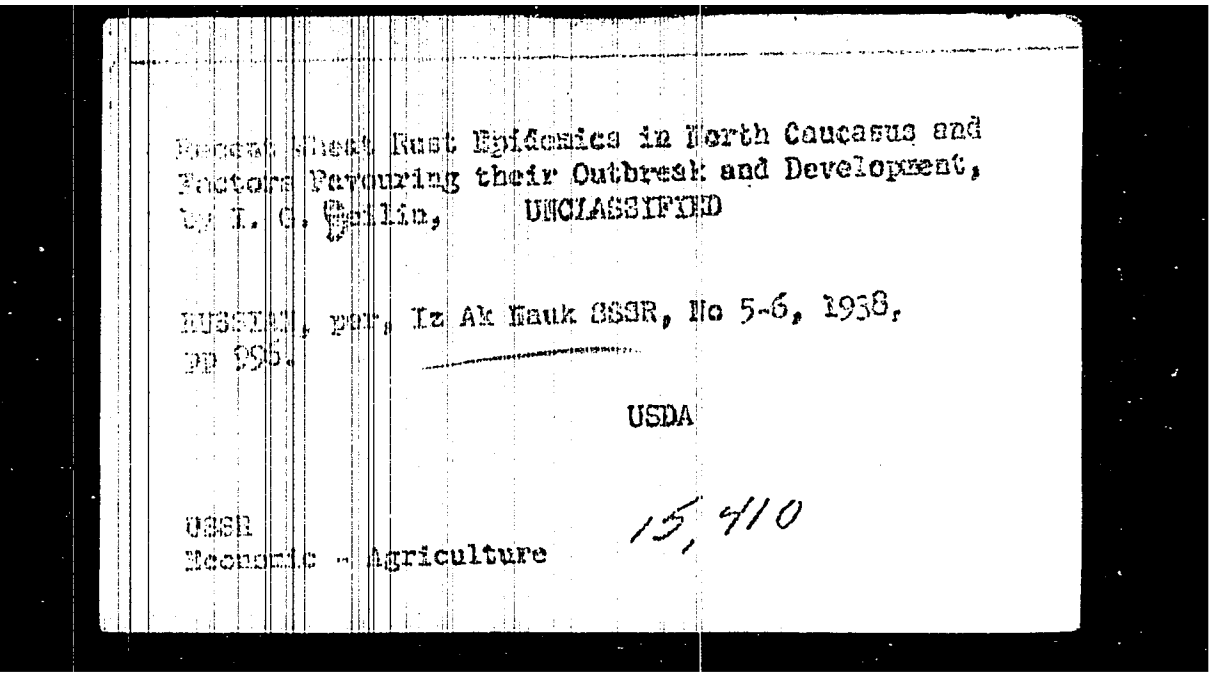
Hybridization between Xiphorus Helleri and Platypoecilus Maculatus by Means of Artificial Insemination, G. V. Semskiylesova, 3p.
RUSSIAN, per, Izvestiya, Akademiya Nauk SSSR. Seriya Biologicheskaya, No 4, 1938, pp 975-981.
OTS TT-65-60043

333, 650

Sci
Jul 67

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0



Present Stem Rust Epidemics in North Caucasus and Factors Favouring their Outbreak and Development, by I. G. Vallin, UNCLASSIFIED

RUSSIAN, per, Iz Ak Nauk SSSR, No 5-6, 1938, pp 995.

USDA

15,410

USSR
Economic - Agriculture

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Bel'govskii, M. L.
DEPENDENCE OF THE FREQUENCY OF MINUTE CHROMOSOME REARRANGEMENTS IN DROSOPHILA MELANOGASTER UPON X-RAY DOSAGE
(Zavisimost' Chastoty Melkikh Perestroek Khromosom u Drosophila Melanogaster ot Dozy X-Luchei). 1962, 14p. 25 refs. PL-480 HEW.
Order from OTS $0.50 61-11484

Trans. of Akademiya Nauk SSSR. Izvestiya. [Seriya Biologicheskaya] 1939 [no. 2] p. 159-170.

DESCRIPTORS: Genetics, *Mutations, *X-rays, *Chromosomes, *Drosophila, Reproduction.

The frequency of minute chromosome rearrangements in Drosophila melanogaster, as determined by the frequency of yellow "mutations" in the sc^8 chromosome, varies approximately proportionally to X-ray dosage, its dependence upon the dosage thus showing no signifi-
(Biological Sciences--Biochemistry, TT, v. 8, no. 2)
(over)

61-11484

I. Bel'govskii, M. L.
II. PL-480 HEW (61-11484)
III. National Science Foundation, Washington, D.C.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Prokof'eva-Bel'govskaya, A. A.
A CYTOLOGICAL STUDY OF THE BREAKS AT THE WHITE LOCUS OF THE X-CHROMOSOME IN DROSOPHILA MELANOGASTER (Tsitologicheskoe Izuchenie Razlomov X-Khromosomy Drosophila Melanogaster v Raione Lokusa White). 1962, 13p.
11 refs. PL-480 HEW.
Order from OTS $0.50 61-11483

Trans. of Akademiya Nauk SSSR. Izvestiya. [Seriya Biologicheskaya] 1939, no. 2, p. 215-227.

DESCRIPTORS: *Genetics, *Drosophila, *Chromosomes, *Mutations, Reproduction, Morphology, Physiology.

The investigation shows that for mottled to occur it is not necessary that the X-chromosome break at a definite point near the white locus.

(Biological Sciences--Biochemistry, TT, v. 8, no. 2)

61-11483

I. Prokof'eva-Bel'govskaya, A. A.
II. PL-480 HEW (61-11483)
III. National Science Foundation, Washington, D. C.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Prokof'eva-Bel'govskaya, A. A.
A CYTOLOGICAL STUDY OF THE "SIMPLE BREAKS" IN THE INERT REGION OF THE SCUTE$_8$ CHROMOSOME OF DROSOPHILA MELANOGASTER (Tsitologicheskoe Izuchenie "Prostykh Razryvov" v Inertnom Raione X-Khromosomy Drosophila Melanogaster). 1962, 11p. 8 refs. PL-480 HEW.
Order from OTS $0.50 61-11482

Trans. of Akademiya Nauk SSSR. Izvestiya. [Seriya Biologicheskaya] 1939 [no. 7] p. 349-361.

DESCRIPTORS: *Histology, *Chromosomes, Morphology, *Genetics, Reproduction, *Drosophila, Mutations.

The data presented here indicate that there are no "simple breaks" in the inert regions, i.e. interstitial genes cannot become terminal. (Author)

(Biological Sciences--Biochemistry, TT, v. 8, no. 2)

61-11482

1. Prokof'eva-Bel'govskaya, A. A.
II. PL-480 HEW (61-11482)
III. National Science Foundation, Washington, D. C.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Prokof'eva-Bel'govskaya, A. A.
INERT REGIONS IN THE INNER PART OF THE X-CHROMOSOME OF DROSOPHILA MELANOGASTER
(Inertnye Raiony Vnutrennikh Chastei X-Khromosomy Drosophila Melanogaster). 1962, 8p. 15 refs.
PL-480 HEW
Order from OTS $0.50 61-11481

Trans. of Akademiya Nauk SSSR. Izvestiya. [Seriya Biologicheskaya] 1939 [no. 2] p. 362-370.

DESCRIPTORS: *Genetics, *Chromosomes, *Drosophila, Salivary glands, Anatomy, Mutations, *Morphology.

Studies revealed the presence of inert regions in seven segments of the X-chromosome: 2B, 3C3, 3C6, 4C3-7, 11A, 12EF, 15F and 19E5-4. Obviously, these cases do not embrace all intercalary inert regions of the X-chromosome. All inert regions in salivary glands (Biological Sciences--Biochemistry, TT, v. 8, no. 2)
(over)

61-11481

I. Prokof'eva-Bel'govskaya, A. A.
II. PL-480 HEW (61-11481)
III. National Science Foundation, Washington, D. C.

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Artemov, N. M. and Lur'e, R. N.
CONTENT OF ACETYLCHOLINE AND CHOLINESTERASE IN TAPEWORM TISSUES, tr. by W. Himel. 8 Aug 50, 12p. (2 figs. omitted) 16 refs.
Order from OTS or SLA $1.60 61-28094

Trans. of Akademiya Nauk SSSR. Izvestiya, Seriya [Biologicheskaya] 1941, no. 2, p. 278-282.

DESCRIPTORS: *Tapeworms, Tissues (Biology), *Acetylcholines, *Cholinesterase, Determination, Physiology.

(Biological Sciences--Biochemistry, TT, v. 6, no. 12)

61-28094

I. Artemov, N. M.
II. Lur'e, R. N.
III. National Institutes of Health, Bethesda, Md.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

On the Possibility of Induction of Cartilage Formation in Vitro, by L. F. Berezkina.
RUSSIAN, per, Izvestiya Akad Nauk SSSR Seriya Biologicheskaya, No 2, 1943, pp 67-73.
OTS TT-64-19452

SLA-M-2877

Sci-B&M
Jul 66

306,434

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Karyological Study of Some Acari and the Problem of Sex Determination in the Group, by I. I. Sokolov, 11 pp.

RUSSIAN, por, Iz Ak Nauk SSSR, Ser Biol, No 6, 1945, pp 654-663.

NIH 9-28-63
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Sci - Biol & Med
Nov 63

243,507

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Developmental Cycle of the Tick Hyalomma Anatolicum Anatolicum Koch.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR Seriya Biologicheskaya, 1946, pp 199-202.
NLL RTS 3369

Sci-Bkl
Sept 66

309,588

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

The Structure and the Development of the Endoparasitic Mollusk Parenterobaenus Dogieli.I. The Organization of the Adult Animal, by A. V. Ivanov.
RUSSIAN, per, Izv AN SSSR Ser Biol, No 1, 1947, pp 3-29.
NLL Ref: 3630.48 (NEC-129)

Sci/BHM
May 69

380,279

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Geochemical History of Oxygen and [redacted] Photo-Synthesis, by A. P. Vinogradov.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Biol, No 3, 1947, pp 409-422.

Dept of Interior

184.772

Sel
Feb 62
Vol III, No 11

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Physiological Mutations in Populations, by N. P. Dubinin, 5 pp.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Ser Biol, No 4, Jul/Aug 1947.

CIA/FDD/X-1460

Scientific - Biology

13,715

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Commensalism in Favosites, by B. S. Sokolov.

RUSSIAN, per, Iz Ak Nauk SSSR, Mat Ser Biol, No 1, 1948, pp 102-109.

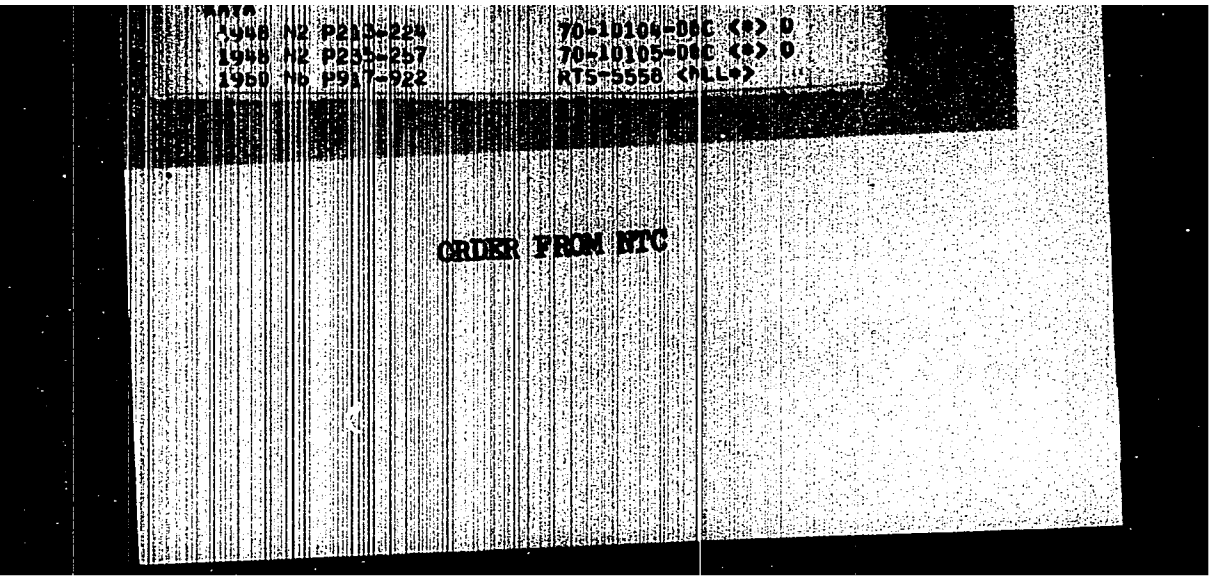
Dept of Interior
QE3 E57 No 12

Sci - Biology
Dec 60

133,942

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0



APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

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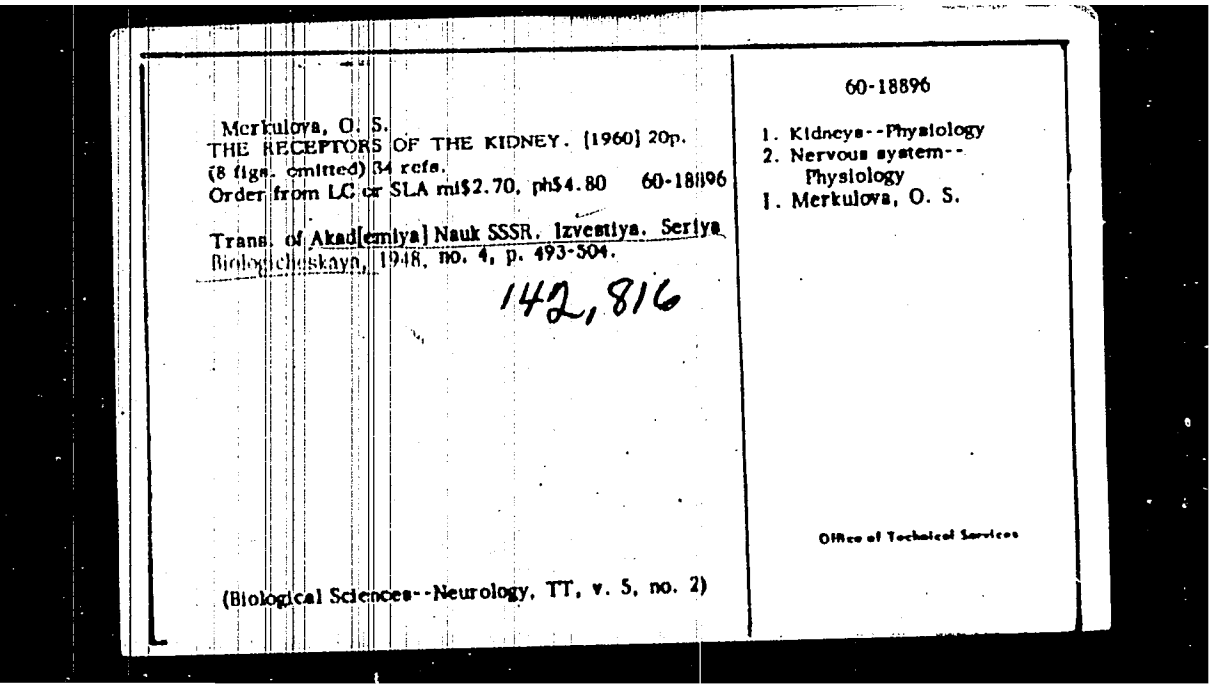

Merkulova, O. S.
THE RECEPTORS OF THE KIDNEY. [1960] 20p.
(8 figs. omitted) 34 refs.
Order from LC or SLA mi$2.70, ph$4.80 60-18896

Trans. of Akad[emiya] Nauk SSSR. Izvestiya. Seriya Biologicheskaya, 1948, no. 4, p. 493-504.

142,816

(Biological Sciences--Neurology, TT, v. 5, no. 2)

60-18896

1. Kidneys--Physiology
2. Nervous system--Physiology
I. Merkulova, O. S.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

The Structure and Development of the Endoparasitic Mollusk "Paronteroxenos Dogieli", by A. V. Ivanov.
RUSSIAN, per, Izv AN SSSR, Ser Biol, Vol 2, 1949, pp 109-134.
NLL Ref: 3630.48 (DTC-132)

Sci-BGM
Mar 69

376,985

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Embryonic Development of Anopheles Maculipennis Mg., by O. M. Ivanova-Kazas, 58 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Biol, No 2, 1949, pp 140-170. CIA 9009553

NIH/Tr 11-12
54, 532

Sci - Biology

Oct 57

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

The Paths of Transformation of Carbon [redacted] Compounds in a Green [redacted] Cell, by P. A. Kolesnikov.

RUSSIAN, bimo pur, Iz Ak Nauk SSSR, Ser Biol, No 3, May/Jun 1949, pp 281 - 295.

AEC Tr 1039

Scientific - Biology

Dec 1951 CTS

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

Effect of Tannins on the [illegible] of Cotton Plants With Verticillium Wilt, by [illegible] Gubanov

RUSSIAN, Akademiya Nauk SSSR, Ser Biol. [illegible] (4):509-518. Jul/Aug 1949. 5 ill 8 ref.

USDA Tr 38[illegible]

Economic - Agriculture
Scientific - Biology

135-0

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170063-0

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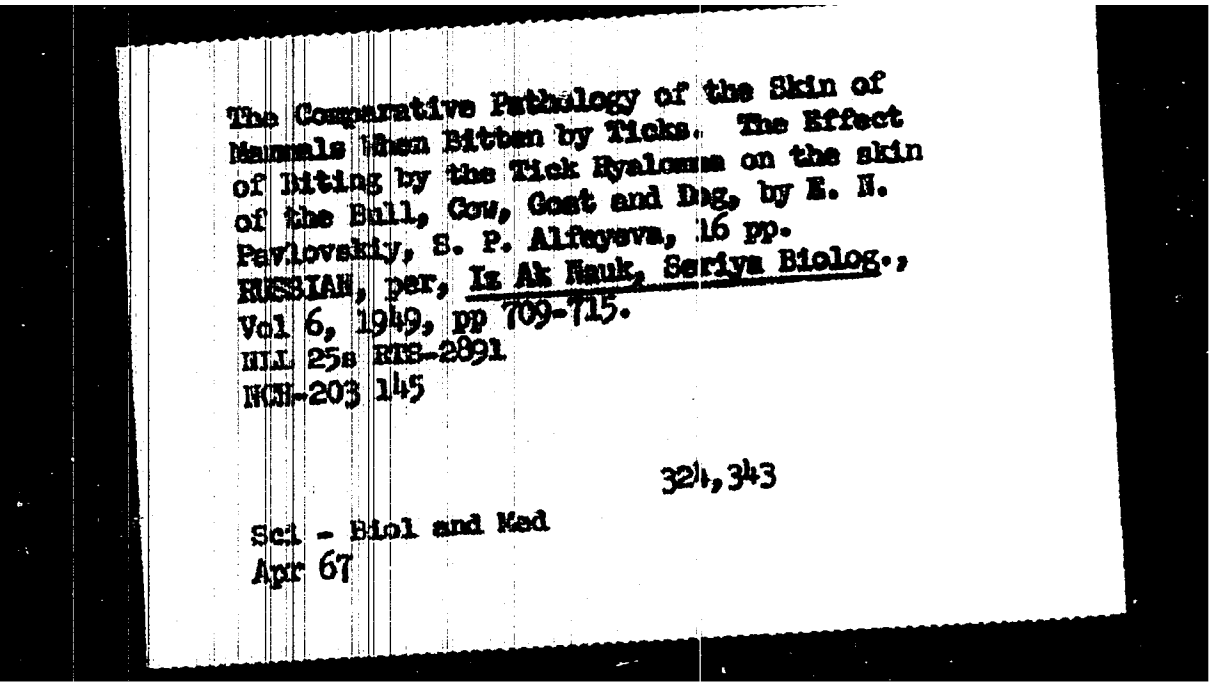

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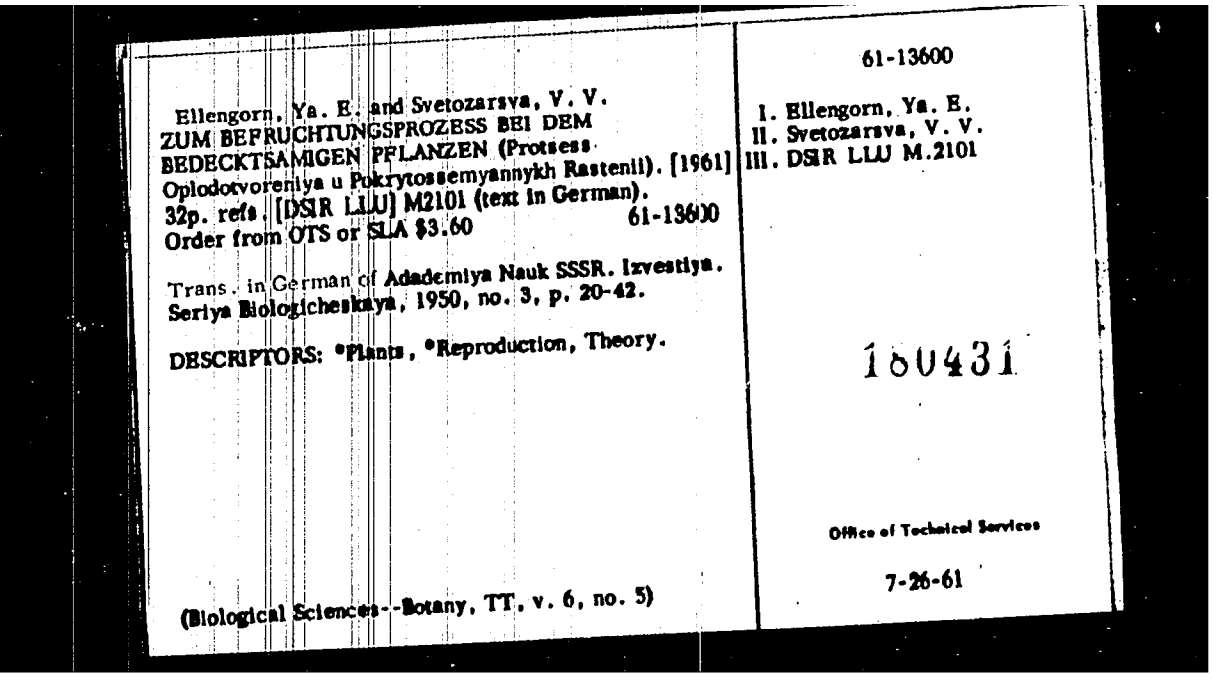

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DESCRIPTORS: *Plants, *Reproduction, Theory.

(Biological Sciences--Botany, TT, v. 6, no. 5)

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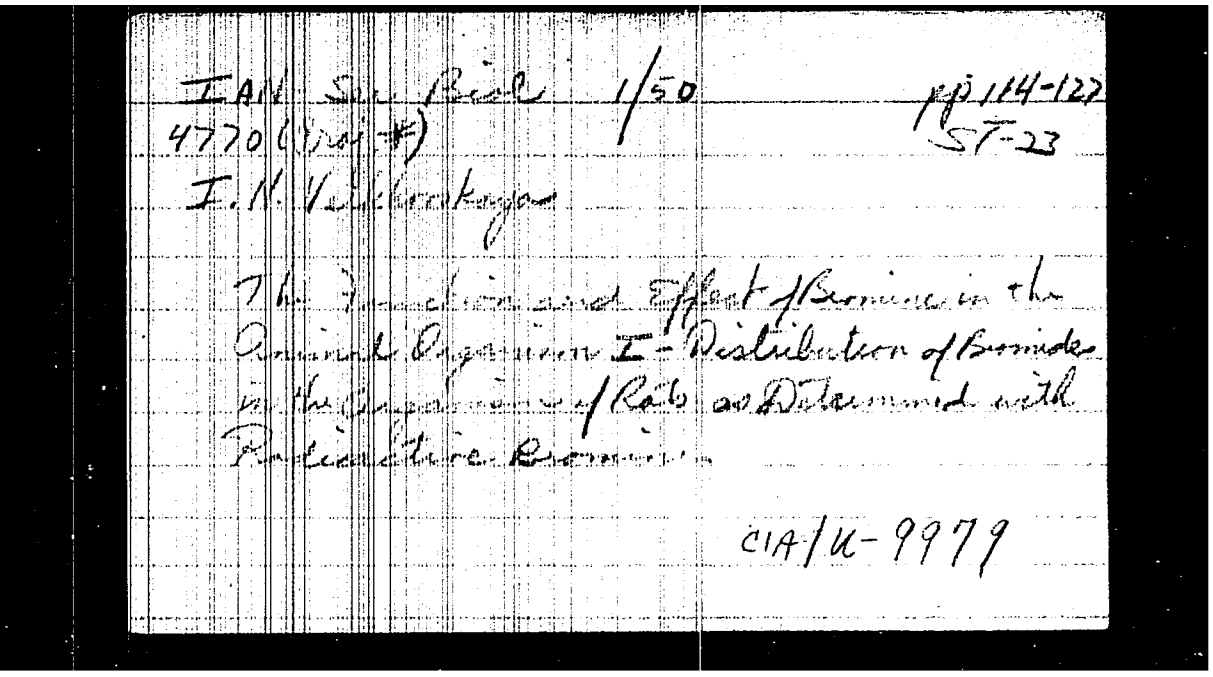

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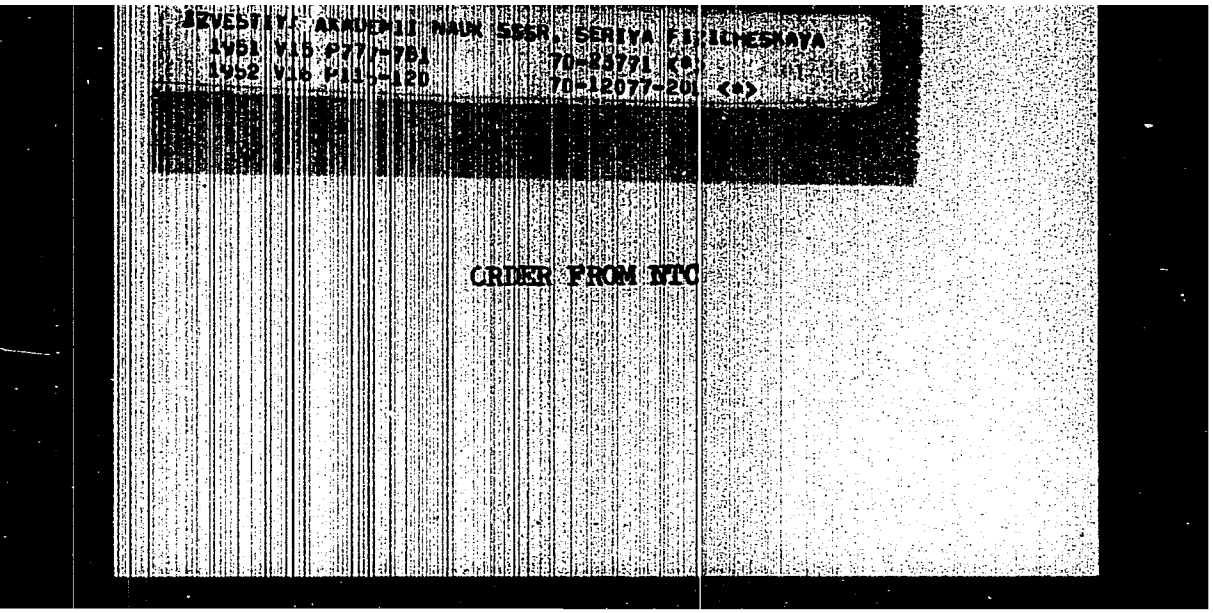

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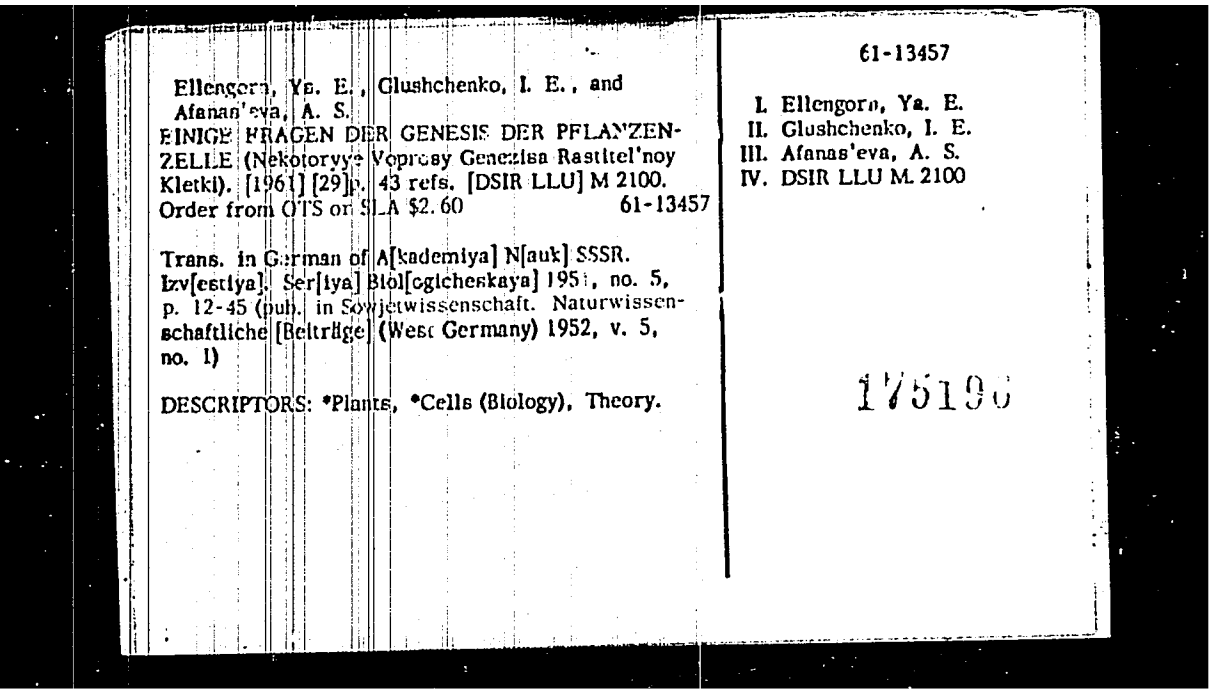

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DESCRIPTORS: *Plants, *Cells (Biology), Theory.

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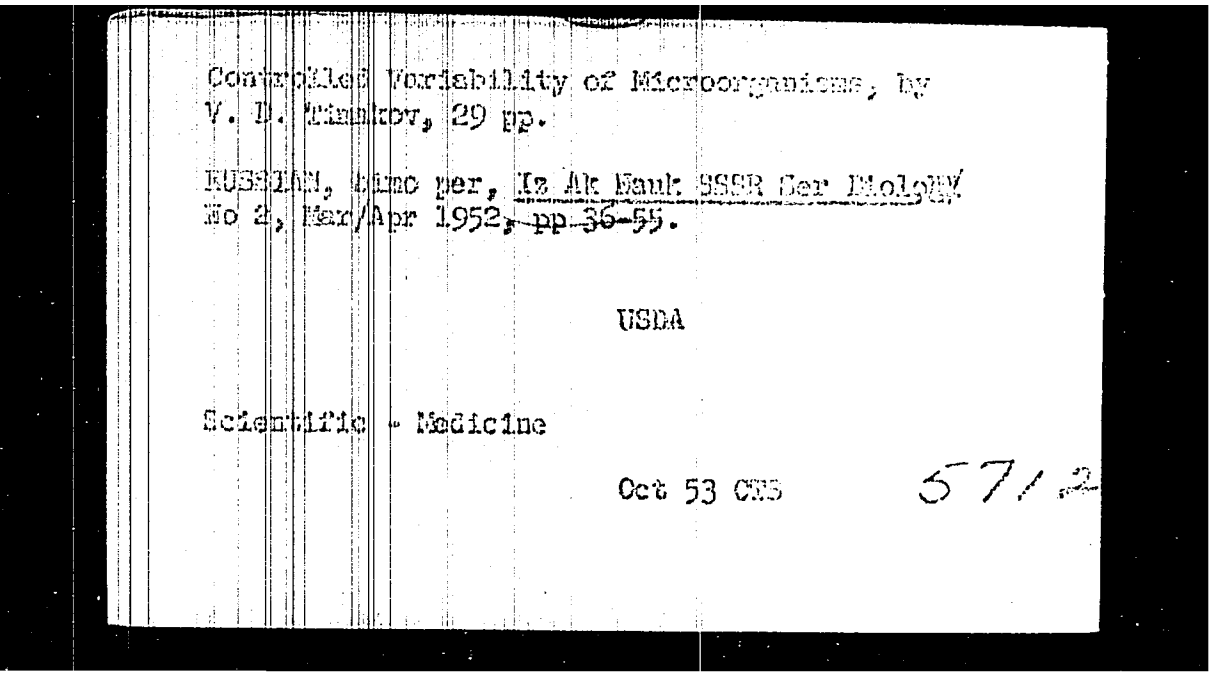

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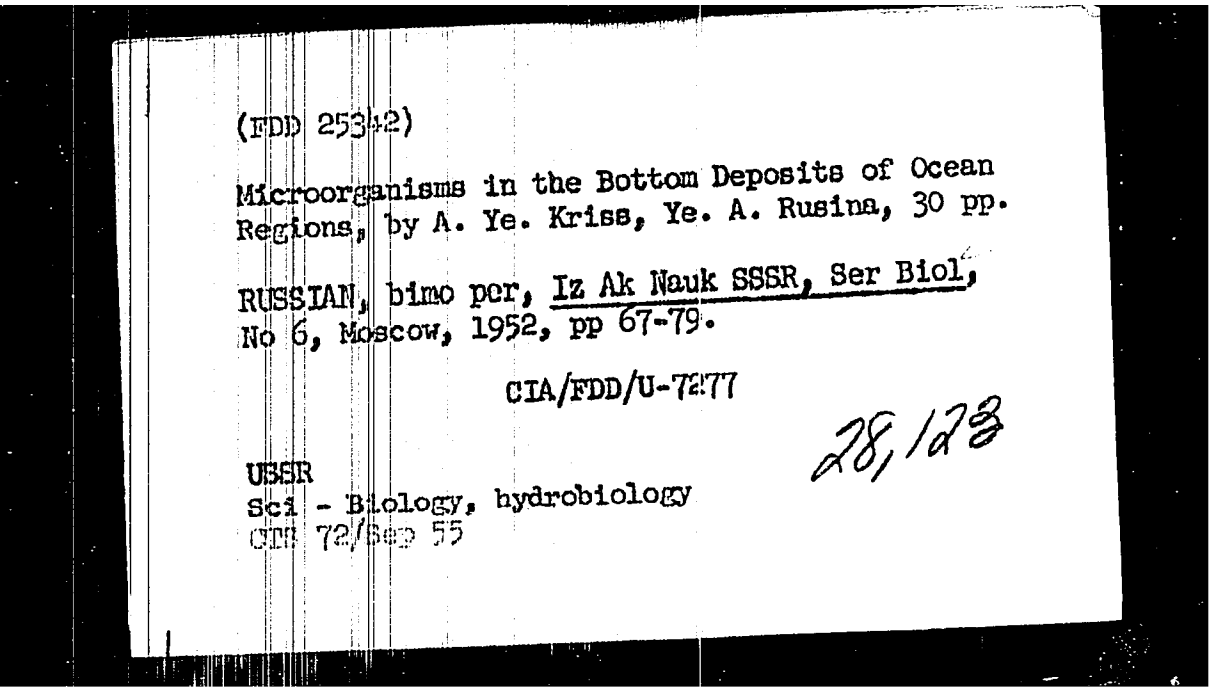

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